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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/931,581	08/17/2001	Mamoru Takikita	Q65636 7222		
75	90 09/12/2005	EXAMINER			
	IION, ZINN, MACPE	HASHEM, LISA			
2100 Pennsylvania Avenue, N.W. Washington, DC 20037			ART UNIT	PAPER NUMBER	
_		2645			

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)			
Office Action Comments		09/931,58	1	TAKIKITA, MAMORU			
	Office Action Summary	Examiner		Art Unit			
		Lisa Hashe		2645			
Period fo	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the c	orrespondence ad	ldress		
A SHOTHE I  - Exter after  - If the  - If NO  - Failu  Any r	ORTENED STATUTORY PERIOD FOR I MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no evertion. s, a reply within the statu y period will apply and will y statute, cause the appli	nt, however, may a reply be time tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).			
Status							
1)🖂	Responsive to communication(s) filed or	1 <u>24 May 2005</u> .					
2a)□	This action is <b>FINAL</b> . 2b)	This action is no	on-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-4 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
10)⊠	The specification is objected to by the Ex The drawing(s) filed on <u>17 August 2001</u> i Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	s/are: a) accepto to the drawing(s) be correction is require	e held in abeyance. Seed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	FR 1.121(d).		
Priority (	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-5 mation Disclosure Statement(s) (PTO-1449 or PTO er No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	O-152)		

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#### **DETAILED ACTION**

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### **Drawings**

1. The drawings are objected to because element 2 in Figures 1 and 3 'Radiocommunication potion' is misspelled. Element 2 should be spelled 'Radiocommunication portion'. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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### Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,805,082 by Hassett in view of U.S. Patent No. 6,597,278 by Ando.

Regarding claim 1, Ando discloses a narrow band communication vehicle-mounted apparatus or mobile device (Fig. 2, 1) comprising (see Abstract;): a radio-communication portion (Fig. 1, 9) for sending and receiving with an on-road device or immobile device (Fig. 2, 2) via an antenna (Fig. 2, 6) (col.1, lines 19-27; col. 3, lines 54-63), a control microcomputer (Fig. 2, 7) for controlling various equipment and a nonvolatile memory (Fig. 2, 8) (col. 3, lines 54-63), wherein said control microcomputer inherently stores in said nonvolatile memory randomly generated communication registration identification data (LID; col. 1, lines 41-49) when communication is opened or when said apparatus starts up (Fig. 6: Start, 100; Fig. 7; col. 5, lines 21-31), and communication is performed using communication registration identification data stored in said nonvolatile memory in a case where said apparatus is in a communication range when said apparatus starts up (col. 5, lines 32-55; col. 6, lines 10-22; col. 7, lines 55-63).

Ando does not disclose a field intensity measuring portion for detecting a radio field intensity and communication is performed where said radio field intensity is in a communication range.

Hassett discloses a narrow band communication vehicle-mounted

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apparatus or in-vehicle component (IVC) (see Abstract; Fig. 2, 16) inherently comprising (col. 12, lines 34-46): a radio-communication portion for sending and receiving with an on-road device (Fig. 2, 18) via an antenna (Fig. 14A, 73), a field intensity measuring portion for detecting a radio field intensity (Fig. 14A, 76), a control microcomputer for inherently controlling various equipment (Fig. 14A, 70), and a nonvolatile memory (Fig. 14A, 88) (col. 8, lines 24-53), wherein said apparatus receives communication registration identification data (new T1 signal) when communication is opened or when said apparatus starts up (when receiving this new T1 signal) (col. 8, lines 35-48; col. 15, lines 7-22), and communication is performed using communication registration identification data received in a case where said radio field intensity is in a communication range when said apparatus starts up (when vehicle decides to exit an upcoming ramp and the apparatus receives a T1 signal data) (col. 14, lines 19-56; col. 14, line 65 - col. 15, line 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Andos to include a field intensity measuring portion for detecting a radio field intensity and communication is performed where said radio field intensity is in a communication range as taught by Hassett. One of ordinary skill in the art would have been lead to make such a modification to include a field intensity measuring portion that detects radio field intensity and a radio field intensity that permits communication.

Regarding claim 3, the narrow band communication vehicle-mounted apparatus according to claim 1, wherein Andos further discloses said randomly generated communication registration identification data relates to an identification of the narrow band communication vehicle-mounted apparatus (col. 1, lines 41-49; col. 1, lines 59-67; col. 3, lines 35-39).

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Regarding claim 4, the narrow band communication vehicle-mounted apparatus according to claim 1, wherein Andos further discloses said control microcomputer (CPU) stores in said nonvolatile memory randomly generated communication registration identification data (LID; Fig. 6, 100) only when said apparatus starts up (Fig. 6, Start).

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 4 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 5,952,940 by Matsumoto.

Regarding claim 2, Matsumoto discloses a narrow band communication vehicle-mounted apparatus or vehicle-mounted device (see Abstract; Fig. 2, 26; col. 1, lines 18-29) comprising: a radio-communication portion (Fig. 3A, 35) for sending and receiving with an on-road device or road-side communication device (Fig. 2, 16; Fig. 3B) via an antenna (Fig. 3A, 27), a frequency control portion (Fig. 3A, 35) for setting send and receive frequencies, a control microcomputer (Fig. 3A, 33) for controlling various equipment and a nonvolatile memory (Fig. 3A, 34) (col. 6, lines 13-23; col. 6, lines 43-53), wherein said control microcomputer inherently saves in said nonvolatile memory a radio frequency (FCM5) at which communication was performed (col. 6, line 64 – col. 7, line 7; Fig. 1, S4: NO; col. 9, lines 8-50; col. 10, line 47 – col. 11, line 3), and communication is performed selecting said radio frequency saved in said nonvolatile memory as

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a first candidate when said apparatus starts up (col. 8, lines 7-14; Fig. 1, S4: NO; col. 9, lines 8-

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50; col. 10, line 47 - col. 11, line 3).

Response to Arguments

6. The claim objections cited in the last office action filed on 2-24-2005 are withdrawn.

7. Applicant's arguments, see Amendment, filed 5-24-2005, with respect to the

rejection(s) of claim(s) 1 and 2 have been fully considered and are persuasive. Therefore, the

rejection has been withdrawn. However, upon further consideration, a new ground(s) of

rejection is made of claims 1-4. Please see the rejections above.

8. Accordingly this action is **NON-FINAL**.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure:

• US Patent No. 6,300,882 by Inoue discloses a vehicle-onboard DSRC apparatus

comprising an electric field intensity discriminating means

10. Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300 (for formal communications intended for entry)

Or call:

(571) 272-2600 (for customer service assistance)

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11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lisa Hashem whose telephone number is (571) 272-7542. The

examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (571) 272-7547. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the Group

receptionist whose telephone number is (571) 272-2600.

12. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 3, 2005

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